

ART 34 AMDT**DTI2 Rec'd PCT/PTO 18 JAN 2005****-15-**

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Claims

- 5 1. A laser system comprising:
 a laser device for emitting laser radiation; and
 a delivery device adapted to connect, in use, to
 said laser device for delivering said laser radiation,
 said delivery device comprising a read/write device for
 10 storing information;
 wherein, in use, said laser device updates said
 information on said read/write device.
- 15 2. A laser system as claimed in claim 1, wherein said
 read/write device comprises an AC or RF identification
 tag or transponder.
- 20 3. A laser system as claimed in claim 1 or 2, wherein,
 in use, said laser device receives information from said
 delivery device.
- 25 4. A laser system as claimed in claim 1, 2 or 3,
 wherein said delivery device comprises an optical fibre.
- 30 5. A laser system as claimed in any preceding claim,
 wherein said laser device includes a detector for
 detecting the connection of said delivery device.
- 35 6. A laser system as claimed in claim 5, wherein, in
 use, said laser device interrogates said delivery device
 after said detector indicates that said delivery device
 has been connected to said laser device.

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ART 34 AMDT**-16-**

7. A laser system as claimed in any of claims 1 to 5, wherein said laser device interrogates said delivery device.

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8. A laser system as claimed in claim 6 or 7, wherein said laser device interrogates said delivery device in a contactless manner.

10. 9. A laser system as claimed in any preceding claim, wherein said information is encoded on, embedded within or otherwise stored with said delivery device.

15. 10. A laser system as claimed in any preceding claim, wherein said information indicates the type of said delivery device.

20. 11. A laser system as claimed in any preceding claim, wherein said information indicates the state, usage, expiry date, age or model of said delivery device.

12. A laser system as claimed in any preceding claim, wherein said information indicates the intended use or function of said delivery device.

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13. A laser system as claimed in any of claims 2-12, wherein said laser device comprises an AC or RF identification reader for reading said AC or RF identification tag or transponder.

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ART 34 ANDT

-17-

14. A laser system as claimed in claim 13, wherein, in use, said delivery device transmits or returns a signal to said AC or RF identification reader.
- 5 15. A laser system as claimed in any preceding claim, wherein said delivery device receives, in use, a power or electromagnetic pulse.
- 10 16. A laser system as claimed in any preceding claim, wherein said delivery device receives, in use, AC or RF energy, stores said energy, and transmits back to said laser device data or information using said stored energy.
- 15 17. A laser system as claimed in any preceding claim, wherein said laser device comprises a SMA-905 connector for receiving an optical fibre.
- 20 18. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device prevents operation with said delivery device upon receiving information from said delivery device.
- 25 19. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device prevents operation with said delivery device if said laser device does not receive any information from said delivery device.
- 30 20. A laser system as claimed in any preceding claim, wherein said laser device prevents operation if a

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ART 34 AMENDT

-18-

- delivery device known per se is connected to said laser device.
21. A laser system as claimed in any preceding claim,
5 wherein the delivery device known per se does not
transmit information to said laser device.
22. A laser system as claimed in any of claims 3-21,
wherein in a mode of operation said laser device
10 prevents operation with said delivery device if said
laser device receives information from said delivery
device and wherein said information indicates a
predetermined parameter.
- 15 23. A laser system as claimed in claim 22, wherein said
parameter indicates the usage of the delivery device.
24. A laser system as claimed in claim 22 or 23,
wherein said parameter indicates the sterility of the
20 delivery device.
25. A laser system as claimed in claim 22, 23 or 24,
wherein said parameter indicates the type of the
delivery device.
26. A laser system as claimed in any of claims 22-25,
wherein said parameter indicates an expiry date of the
delivery device.
- 30 27. A laser system as claimed in any preceding claim,
wherein said laser device may be enabled and/or disabled
remotely.

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APPENDIX
PART 3A PCT/EP

-19-

28. A laser system as claimed in claim 27, wherein said laser device may be enabled and/or disabled via a telephone link, serial interface or via the internet.
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29. A laser system as claimed in any preceding claim, wherein said laser device further comprises a visual display, said display being adapted to provide the user with information received from said delivery device.
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30. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device receives information from said delivery device and, in response to the information received, sets the power of laser radiation to be transmitted to said delivery device.
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31. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device receives information from said delivery device and, in response to the information received, sets the pulse width of laser radiation to be transmitted to said delivery device.
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32. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device receives information from said delivery device and, in response to the information received, sets the interval between pulses of laser radiation to be transmitted to said delivery device.
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ART 3A AMDT

-20-

33. A laser system as claimed in any preceding claim, wherein in a mode of operation said laser device receives information from said delivery device and, in response to the information received, sets the duration 5 that laser radiation is to be transmitted to said delivery device.

34. A medical laser device comprising a laser system as claimed in any preceding claim.

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35. A laser device for emitting laser radiation which, in use, updates information stored on a delivery device which comprises a read/write device for storing said information.

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36. A delivery device adapted to connect, in use, to a laser device for delivering laser radiation, wherein said delivery device comprises a read/write device for storing information which, in use, is updated by the 20 laser device.

37. A laser system comprising:

a laser device for emitting laser radiation; and
a delivery device adapted to connect, in use, to
25 said laser device for delivering said laser radiation,
said delivery device comprising a read/write AC or RF
identification tag or transponder for storing
information;

wherein, in use, said laser device updates said
30 information on said AC or RF identification tag or
transponder.

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ART 24 AMEND

-21-

38. A method of operating a laser system comprising the steps of:
- providing a laser device; and
connecting a delivery device comprising a
5 read/write device for storing information to said laser device;
wherein said laser device updates said information on said read/write device.
- 10 39. A method as claimed in claim 38, wherein said read/write device comprises an AC or RF identification tag or transponder.
- 15 40. A method as claimed in claim 38 or 39, wherein said laser device receives information from said delivery device.
- 20 41. A method as claimed in claim 38, 39 or 40, wherein said delivery device comprises an optical fibre.
- 25 42. A method as claimed in any of claims 38-41, wherein said laser device detects the attachment of said delivery device.
43. A method as claimed in claim 42, wherein said laser device interrogates said delivery device after detecting the attachment of said delivery device.
44. A method as claimed in any of claims 38-42, wherein
30 said laser device interrogates said delivery device.

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ART 2A AMEND

-22-

45. A method as claimed in claim 43 or 44, wherein said laser device interrogates said delivery device in a contactless manner.
- 5 46. A method as claimed in any of claims 38-45, wherein said information is encoded on, embedded within or otherwise stored with said delivery device.
- 10 47. A method as claimed in any of claims 38-46, wherein said laser device receives information from said delivery device and displays said information for the user.
- 15 48. A method as claimed in any of claims 38-47, wherein said laser device receives information from said delivery device indicating the usage of the delivery device.
- 20 49. A method as claimed in any of claims 38-48, wherein said laser device receives information from said delivery device indicating the sterility of the delivery device.
- 25 50. A method as claimed in any of claims 38-49, wherein said laser device receives information from said delivery device indicating the type of the delivery device.
- 30 51. A method as claimed in any of claims 38-50, wherein said laser device receives information from said delivery device indicating the expiry date of the delivery device.

Best Available Copy

ART. 34 AMENDT

-23-

52. A method as claimed in any of claims 38-51, wherein
in a mode of operation said laser device prevents
operation with said delivery device if said laser device
5 does not receive any information from said delivery
device.
53. A method as claimed in any of claims 38-52, wherein
said laser device prevents operation if a delivery
10 device known per se is connected to said laser device.
54. A method as claimed in any of claim 53, wherein the
delivery device known per se does not transmit
information to said laser device.
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55. A method as claimed in any of claims 40-54, wherein
in a mode of operation said laser device prevents
operation with said delivery device if said laser device
receives information from said delivery device and
20 wherein said information indicates a predetermined
parameter.
56. A method as claimed in claim 55, wherein said
parameter indicates the usage of the delivery device.
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57. A method as claimed in claim 55 or 56, wherein said
parameter indicates the sterility of the delivery
device.
- 30 58. A method as claimed in claim 55, 56 or 57, wherein
said parameter indicates the type of the delivery
device.

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-24-

59. A method as claimed in any of claims 55-58, wherein said parameter indicates an expiry date of the delivery device.

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60. A method as claimed in any of claims 38-59, wherein in a mode of operation said laser device is enabled and/or disabled remotely.

10 61. A method as claimed in any of claims 38-60, wherein said delivery device receives a power or electromagnetic pulse.

15 62. A method as claimed in any of claims 38-61, wherein said delivery device receives AC or RF energy, stores said energy, and transmits back to said laser device data or information using said stored energy.

20 63. A method as claimed in any of claims 38-62, wherein said laser device receives information from said delivery device and, in response to the information received, configures the operation of said laser device.

25 64. A method as claimed in claim 63, wherein, in response to the information received, said laser device sets the power of laser radiation to be transmitted to said delivery device.

30 65. A method as claimed in claim 63 or 64, wherein, in response to the information received, said laser device sets the pulse width of laser radiation to be transmitted to said delivery device.

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-25-

66. A method as claimed in claim 63, 64 or 65, wherein,
in response to the information received, said laser
device sets the interval between pulses of laser
5 radiation to be transmitted to said delivery device.

67. A method as claimed in any of claims 63-66,
wherein, in response to the information received, said
laser device sets the duration that laser radiation is
10 to be transmitted to said delivery device.

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